

EXHIBIT A

NOTICE TO COMPLY WITH REQUIREMENTS FOR PATENT APPLICATIONS CONTAINING NUCLEOTIDE SEQUENCE AND/OR AMINO ACID SEQUENCE DISCLOSURES

The nucleotide and/or amino acid sequence disclosure contained in this application does not comply with the requirements for such a disclosure as set forth in 37 CFR 1.821 - 1.825 for the following reason(s):

- ☒ 1. This application clearly fails to comply with the requirements of 37 CFR 1.821 - 1.825. Applicant's attention is directed to these regulations, published at 1114 OG 29, May 15, 1990 and at 55 FR 18230, May 1, 1990.
- ☐ 2. This application does not contain, as a separate part of the disclosure on paper copy, a "Sequence Listing" as required by 37 CFR 1.821(c).
- ☐ 3. A copy of the "Sequence Listing" in computer readable form has not been submitted as required by 37 CFR 1.821(e).
- ☒ 4. A copy of the "Sequence Listing" in computer readable form has been submitted. However, the content of the computer readable form does not comply with the requirements of 37 CFR 1.822 and/or 1.823, as indicated on the attached copy of the marked-up "Raw Sequence Listing."
- ☐ 5. The computer readable form that has been filed with this application has been found to be damaged and/or unreadable as indicated on the attached CRF Diskette Problem Report. A substitute computer readable form must be submitted as required by 37 CFR 1.825(d).
- ☐ 6. The paper copy of the "Sequence Listing" is not the same as the computer readable form of the "Sequence Listing" as required by 37 CFR 1.821(e).
- ☐ 7.

Other: _____

Applicant must provide:

- ☒ An initial or substitute computer readable form (CRF) copy of the "Sequence Listing"
- ☒ An initial or substitute paper copy of the "Sequence Listing", as well as an amendment directing its entry into the specification
- ☒ A statement that the content of the paper and computer readable copies are the same and, where applicable, include no new matter, as required by 37 CFR 1.821(e) or 1.821(f) or 1.821(g) or 1.825(b) or 1.825(d)

For questions regarding compliance with these requirements, please contact:

For Rules Interpretation, call (703) 308-1123
 For CRF submission help, call (703) 308-4212
 For PatentIn software help, call (703) 557-0400

Please return a copy of this notice with your response.

Applicants' Copy

PAGE: 1

RAW SEQUENCE LISTING PATENT APPLICATION US/08/822,963

DATE: 05/05/98
TIME: 14:45:52

INPUT SET: S25541.raw

This Raw Listing contains the General Information Section and those Sequences containing ERRORS.

Does Not Comply
Corrected Diskette Needed

SEQUENCE LISTING

(1) General Information

(i) APPLICANT: ^{no 5} DAKAI LIU
RABBANI, ELAZAR

(ii) TITLE OF INVENTION: VECTORS AND VIRAL VECTORS, AND PACKAGING CELL LINES FOR (PR

(iii) NUMBER OF SEQUENCES: 16

(iv) CORRESPONDENCE ADDRESS:

(A) ADDRESSEE: ENZO THERAPEUTICS, INC.

(B) STREET: C/O ENZO BIOCHEM, INC.

527 MADISON AVENUE, 9TH FLOOR

(C) CITY: NEW YORK

(D) STATE: NY

(E) COUNTRY: USA

(F) ZIP: 10022

(v) COMPUTER READABLE FORM:

(A) MEDIUM TYPE: 3.5" Micro Floppy Disk. 1.44 KB
STORAGE

(B) COMPUTER: IBM PC/XT/AT, IBM PS/2 OR COMPATIBLES

(C) OPERATING SYSTEM: PC-DOS

(D) SOFTWARE: MICROSOFT WORD ____ - ASCII TEXT (DOS)

(vi) CURRENT APPLICATION DATA:

(A) APPLICATION NUMBER: US 08/822,963

(B) FILING DATE: 21-MARCH-1997

(C) CLASSIFICATION: Not Yet Known

(vii) ATTORNEY/AGENT INFORMATION:

(A) NAME: FEDUS, RONALD C.

(B) REGISTRATION NUMBER: 32,567

(C) REFERENCE/DOCKET NUMBER: ENZ-56

(viii) TELECOMMUNICATION INFORMATION

(A) TELEPHONE: (212) 583-0100

(B) TELEFAX: (212) 583-0150

(ix) SEQUENCE DESCRIPTION: SEQ ID NO: 1:

Suggestion: Study
sequence rules for
proper format.

"16" are shown - do not
place dashes
before or after
numeric
total;
print use 16

ALL text
must be
visible on
page

Please telephone
Arti Shah,
703-308-4212
if you have questions

delete - does not belong here

ERRORED SEQUENCES FOLLOW:

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/822,963DATE: 05/05/98
TIME: 14:45:53

INPUT SET: S25541.raw

44 (2) INFORMATION FOR SEQ ID NO:1:
45 (1) SEQUENCE CHARACTERISTICS:
--> 46 (A) LENGTH:9 base pairs
47 (B) TYPE:nucleic acid
48 (C) STRANDEDNESS:double
49 (D) TOPOLOGY:linear
50 (ix) SEQUENCE DESCRIPTION:SEQ ID NO:1:

51
52 TATCACCGC
53 ATAGTGGCG
54
55
56
57
58

involved - Per 1.822 (j) of sequence
Rules, a nucleotide sequence shall be
presented, only by a single strand,
in the 5' to 3' direction, from left to right

Per 1.822 (l),
sequence rules,
cumulative based
goes to right 96-103
margin of each line

59 (2) INFORMATION FOR SEQ ID NO:2:
60 (1) SEQUENCE CHARACTERISTICS:
--> 61 (A) LENGTH:9 base pairs
62 (B) TYPE:nucleic acid
63 (C) STRANDEDNESS:double
64 (D) TOPOLOGY:linear
65 (ix) SEQUENCE DESCRIPTION:SEQ ID NO:2:

66
67 ACAAGAAAA
68 TGTTCTTTT
69

same error
throughout listing

total

70 (2) INFORMATION FOR SEQ ID NO:3:
71 (1) SEQUENCE CHARACTERISTICS:
--> 72 (A) LENGTH:10 base pairs
73 (B) TYPE:nucleic acid
74 (C) STRANDEDNESS:double
75 (D) TOPOLOGY:linear
76 (ix) SEQUENCE DESCRIPTION:SEQ ID NO:3:

77
78 GTACTAGTTA
79 CATGATCAAT
80

81 (2) INFORMATION FOR SEQ ID NO:4:
82 (1) SEQUENCE CHARACTERISTICS:
--> 83 (A) LENGTH:8 base pairs
84 (B) TYPE:nucleic acid
85 (C) STRANDEDNESS:double
86 (D) TOPOLOGY:linear
87 (ix) SEQUENCE DESCRIPTION:SEQ ID NO:4:

88
89 AGACGTCT
90 TCTGCAGA
91

92 (2) INFORMATION FOR SEQ ID NO:5:

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/822,963DATE: 05/05/98
TIME: 14:45:54

INPUT SET: S25541.raw

--> 93 (1) SEQUENCE CHARACTERISTICS:
94 (A) LENGTH:24 base pairs
95 (B) TYPE:nucleic acid
96 (C) STRANDEDNESS:double
97 (D) TOPOLOGY:linear
98 (ix) SEQUENCE DESCRIPTION:SEQ ID NO:5:
99
100 TGGGAATTGTGAGCGGATAACAATT
101 ACCTTAACACTCGCCTATTGTAA
102

insert data
also,
invalid - Per 1.822 (f) of sequence rule
non-coding bases are divided into
groups of 10 bases.

--> 103 (2) INFORMATION FOR SEQ ID NO:6:
104 (1) SEQUENCE CHARACTERISTICS:
105 (A) LENGTH:4 base pairs
106 (B) TYPE:nucleic acid
107 (C) STRANDEDNESS:double
108 (D) TOPOLOGY:linear
109 (ix) SEQUENCE DESCRIPTION:SEQ ID NO:6:
110
111 TAAT
112 ATTA
113

--> 114 (2) INFORMATION FOR SEQ ID NO:7:
115 (1) SEQUENCE CHARACTERISTICS:
116 (A) LENGTH:9 base pairs
117 (B) TYPE:nucleic acid
118 (C) STRANDEDNESS:double
119 (D) TOPOLOGY:linear
120 (ix) SEQUENCE DESCRIPTION:SEQ ID NO:7:
121
122 CATGTAATT
123 GTACATTAA
124

--> 125 (2) INFORMATION FOR SEQ ID NO:8:
126 (1) SEQUENCE CHARACTERISTICS:
127 (A) LENGTH:13 base pairs
128 (B) TYPE:nucleic acid
129 (C) STRANDEDNESS:double
130 (D) TOPOLOGY:linear
131 (ix) SEQUENCE DESCRIPTION:SEQ ID NO:8:
132
133 AAAAGTGTGACAT
134 TTTTCACACTGTA
135

--> 136 (2) INFORMATION FOR SEQ ID NO:9:
137 (1) SEQUENCE CHARACTERISTICS:
138 (A) LENGTH:11 base pairs
139 (B) TYPE:nucleic acid
140 (C) STRANDEDNESS:double
141 (D) TOPOLOGY:linear

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/822,963DATE: 05/05/98
TIME: 14:45:55

INPUT SET: S25541.raw

142 (ix) SEQUENCE DESCRIPTION:SEQ ID NO:9:
143
144 CCGGAGGACAG
145 GGCTCCTGTC
146

--> 147 (2) INFORMATION FOR SEQ ID NO:10:
148 (i) SEQUENCE CHARACTERISTICS:
149 (A) LENGTH:12 base pairs
150 (B) TYPE:nucleic acid
151 (C) STRANDEDNESS:double
152 (D) TOPOLOGY:linear
153 (ix) SEQUENCE DESCRIPTION:SEQ ID NO:10:
154
155 ACCGACGTCGGT
156 TGGCTGCAGCCA
157

--> 158 (2) INFORMATION FOR SEQ ID NO:11:
159 (i) SEQUENCE CHARACTERISTICS:
160 (A) LENGTH:6 base pairs
161 (B) TYPE:nucleic acid
162 (C) STRANDEDNESS:double
163 (D) TOPOLOGY:linear
164 (ix) SEQUENCE DESCRIPTION:SEQ ID NO:11:
165
166 ATGATC
167 TACTAG
168

--> 169 (2) INFORMATION FOR SEQ ID NO:12:
170 (i) SEQUENCE CHARACTERISTICS:
171 (A) LENGTH:9 base pairs
172 (B) TYPE:nucleic acid
173 (C) STRANDEDNESS:double
174 (D) TOPOLOGY:linear
175 (ix) SEQUENCE DESCRIPTION:SEQ ID NO:12:
176
177 GCGTGGGCG
178 CGCACCCGC
179

--> 180 (2) INFORMATION FOR SEQ ID NO:13:
181 (i) SEQUENCE CHARACTERISTICS:
182 (A) LENGTH:9 base pairs
183 (B) TYPE:nucleic acid
184 (C) STRANDEDNESS:double
185 (D) TOPOLOGY:linear
186 (ix) SEQUENCE DESCRIPTION:SEQ ID NO:13:
187
188 CAGAACATC
189 GTCTTGTAG
190

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/822,963DATE: 05/05/98
TIME: 14:45:56

INPUT SET: S25541.raw

191 (2) INFORMATION FOR SEQ ID NO:14:
192 (1) SEQUENCE CHARACTERISTICS:
--> 193 (A) LENGTH:8 base pairs
194 (B) TYPE:nucleic acid
195 (C) STRANDEDNESS:double
196 (D) TOPOLOGY:linear
197 (ix) SEQUENCE DESCRIPTION:SEQ ID NO:14:
198
199 TATATAAA
200 ATATATTT
201

202 (2) INFORMATION FOR SEQ ID NO:15:
203 (1) SEQUENCE CHARACTERISTICS:
--> 204 (A) LENGTH:309 base pairs 319 shown
205 (B) TYPE:nucleic acid
206 (C) STRANDEDNESS:single
207 (D) TOPOLOGY:linear
208 (ix) SEQUENCE DESCRIPTION:SEQ ID NO:15:
209
--> 210 GAACAGATGGAACAGCTGAATATGGGCCAAACAGGATATCTGTGGTAAGC1
211 AGTTCTCTGCCCCGGCTCAGGGCCAAGAACAGATGGAACAGCTGAATATGG51
212
213 GCCAAACAGGATATCTGTGGTAAGCAGTTCTGCCCCGGCYCAGGGCCA101
214
215 GAACAGATGGTCCCCAGATGCGGTCCAGCCCTCAGCAGTTTCTAGAGAAC151
216
217 CATCAGATGTTTCCAGGGTGCCCCAAGGACCTGAAATGACCCTGTGCCTT201
218
219 ATTTGAACTAACCAATCAGTTCGCTTCTCGCTTCTGTTGCGCGCTTCTG251
220
--> 221 CTCCCCGAGCTCAATAAAN301
222
223

invalid format (see seq 5)

incorrect numbering -
show the cumulative
total at the end of
each line. see
1.822(1) of
Sequence Rules

224 (2) INFORMATION FOR SEQ ID NO:16:
225 (1) SEQUENCE CHARACTERISTICS:
--> 226 (A) LENGTH:309 base pairs 326 shown
227 (B) TYPE:nucleic acid
228 (C) STRANDEDNESS:single
229 (D) TOPOLOGY:linear
230 (ix) SEQUENCE DESCRIPTION:SEQ ID NO:16:
231
--> 232 ACGCTTGATCCGGCTACCTGCCATTGACCACCAAGCGAAACATCGCAT1
233
234 CGAGCGAGCACGTACTCGGATGGAAGCCGGTCTTGTGCGATCAGGATGATC51
235
236 TGGACGAAGAGCATCAGGGGCTCGCGCCAGCCGAAGTGTTCGCCAGGCTC101
237
238 AAGGCGCGCATGCCCGACGGCGAGGATCTCGTCTGACTTTCTAGAGAAC151
239
240 CATCAGATGTTTCCAGGGTGCCCCAAGGACCTGAAATGACCCTGTGCCTT201

invalid format

incorrect numbering

see next page

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/822,963DATE: 05/05/98
TIME: 14:45:57

INPUT SET: S25541.raw

241

242 ATTTGAACTAACCGGTCAGTTCGCTTCTCGCTTCTGTTTCGCGCGCTTCTG

243

244 CTCCCCGAGCTCAGCTGCG

245

246

247

248

249

250

251

252

253

254

255

256

257

258

259

260

261

262

263

--> 264 LC/WORD/USPROSECUTION/ENZ56/SEQUENCE LISTING.10.1.97

--> 265 SEQ ID NO: 1, PAGE 6

266

267 ENZ-56

268

269 ENZ-56

270

271

272

251) incorrect
← insert total
(cumulative)

delete

INPUT SET: S25541.raw[illegible]

SEQUENCE VERIFICATION REPORT
PATENT APPLICATION US/08/822,963DATE: 05/05/98
TIME: 14:46:00

INPUT SET: S25541.raw

Line	Error	Original Text
264	Wrong Nucleic Acid Designator	LC/WORD/USPROSECUTION/ENZ56/SEQUENCE LIS
264	Wrong Nucleic Acid Designator	LC/WORD/USPROSECUTION/ENZ56/SEQUENCE LIS
264	# of Sequences for line conflicts w/ running total	LC/WORD/USPROSECUTION/ENZ56/SEQUENCE LIS
265	Wrong Nucleic Acid Designator	SEQ ID NO: 1, PAGE 6
265	Wrong Nucleic Acid Designator	SEQ ID NO: 1, PAGE 6
265	Wrong Nucleic Acid Designator	SEQ ID NO: 1, PAGE 6
265	Wrong Nucleic Acid Designator	SEQ ID NO: 1, PAGE 6
265	Wrong Nucleic Acid Designator	SEQ ID NO: 1, PAGE 6
265	Wrong Nucleic Acid Designator	SEQ ID NO: 1, PAGE 6
265	Wrong Nucleic Acid Designator	SEQ ID NO: 1, PAGE 6
265	Wrong Nucleic Acid Designator	SEQ ID NO: 1, PAGE 6
265	Wrong Nucleic Acid Designator	SEQ ID NO: 1, PAGE 6
265	# of Sequences for line conflicts w/ running total	SEQ ID NO: 1, PAGE 6

EXHIBIT B

SEQUENCE LISTING

<110> Liu, Dakai
Rabbani, Elazar

<120> VECTORS AND VIRAL VECTORS, AND PACKAGING CELL LINES FOR
PROPOGATING SAME

<130> ENZ-56SequenceListing.110398

<140> 08/822,963

<141> 1997-03-21

<160> 16

<170> PatentIn Ver. 2.0

<210> 1

<211> 9

<212> DNA

<213> Bacteriophage lambda

<220>

<223> Description of Artificial Sequencenucleic acid,
double stranded, linear topology

<220>

<223> Description of Artificial Sequence:nucleic acid,
double stranded, linear topology

<400> 1

tatcaccgc

9

<210> 2

<211> 9

<212> DNA

<213> bacteriophage 434

<220>

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double stranded, linear topology

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acaagaaaa

9

<210> 3

<211> 10

<212> DNA

<213> Escherichia coli

<220>

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double stranded, linear topology

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gtactagtta

10

<210> 4

<211> 8

<212> DNA

<213> Escherichia coli

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double stranded, linear topology

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8

<210> 5

<211> 24

<212> DNA

<213> Escherichia coli

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<223> Description of Artificial Sequence:nucleic acid,
double stranded, linear topology

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tggaattgtg agcggataac aatt

24

<210> 6

<211> 4

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<213> Drosophila melanogaster

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double stranded, linear topology

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taat

4

<210> 7

<211> 9

<212> DNA

<213> MAT alpha 2 yeast

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double stranded, linear topology

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catgtaatt

9

<210> 8

<211> 13

<212> DNA

<213> Escherichia coli

<220>

<223> Description of Artificial Sequence:nucleic acid,
double stranded, linear topology

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aaaagtgtga cat

13

<210> 9

<211> 11

<212> DNA

<213> GAL4 yeast

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double stranded, linear topology

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ccggaggaca g

11

<210> 10

<211> 12

<212> DNA

<213> Papillomavirus sylvilagi

<220>

<223> Description of Artificial Sequence:nucleic acid,
double stranded, linear topology

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12

<210> 11

<211> 6

<212> DNA

<213> GCN4 yeast

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double stranded, linear topology

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atgatc

6

<210> 12

<211> 9

<212> DNA

<213> zif268 murine

<220>

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double stranded, linear topology

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9

<210> 13

<211> 9

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<223> Description of Artificial Sequence:nucleic acid,
double stranded, linear topology

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9

<210> 14

<211> 8

<212> DNA

<213> tfiid

<220>

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double stranded, linear topology

<400> 14

tatataaa

8

<210> 15

<211> 319

<212> DNA

<213> murine leukemia virus

<220>

<223> Description of Artificial Sequence:nucleic acid,
single stranded, linear topology

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taagcagttc ctgccccggc tcagggccaa gaacagatgg tccccagatg cgtccagcc 180
ctcagcagtt tctagagaac catcagatgt ttccaggggtg cccaaggac ctgaaatgac 240
cctgtgcctt atttgaacta accaatcagt tcgcttctcg cttctgttcg cgcgcttctg 300
ctccccgagc tcaataaaa                                     319
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<210> 16

<211> 319

<212> DNA

<213> murine leukemia virus

<220>

<223> Description of Artificial Sequence:nucleic acid,
single stranded, linear topology

<400> 16

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ctcgcgccag ccgaactgtt cgccaggctc aaggcgcgca tgcccagcgg cgaggatctc 180
gtcgtgactt tctagagaac catcagatgt ttccaggggtg cccaaggac ctgaaatgac 240
cctgtgcctt atttgaacta accggtcagt tcgcttctcg cttctgttcg cgcgcttctg 300
ctccccgagc tcagctgcg                                     319
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